

FIGURE 1 - the amino acid sequence of native human coagulation Factor VII

Ala-Asn-Ala-Phe-Leu-GLA-GLA-Leu-Arg-Pro-Gly-Ser-Leu-GLA-Arg-GLA-Cys-Lys-  
                   5                     10                    15  
  
 GLA-GLA-Gln-Cys-Ser-Phe-GLA-GLA-Ala-Arg-GLA-Ile-Phe-Lys-Asp-Ala-GLA-Arg-  
                   20                  25                  30                    35  
  
 Thr-Lys-Leu-Phe-Trp-Ile-Ser-Tyr-Ser-Asp-Gly-Asp-Gln-Cys-Ala-Ser-Ser-Pro-  
                   40                  45                  50  
  
 Cys-Gln-Asn-Gly-Gly-Ser-Cys-Lys-Asp-Gln-Leu-Gln-Ser-Tyr-Ile-Cys-Phe-Cys-  
                   55                  60                  65                    70  
  
 Leu-Pro-Ala-Phe-Glu-Gly-Arg-Asn-Cys-Glu-Thr-His-Lys-Asp-Asp-Gln-Leu-Ile-  
                   75                  80                  85                    90  
  
 Cys-Val-Asn-Glu-Asn-Gly-Gly-Cys-Glu-Gln-Tyr-Cys-Ser-Asp-His-Thr-Gly-Thr-  
                   95                  100                105  
  
 Lys-Arg-Ser-Cys-Arg-Cys-His-Glu-Gly-Tyr-Ser-Leu-Leu-Ala-Asp-Gly-Val-Ser-  
                   110                  115                120                    125  
  
 Cys-Thr-Pro-Thr-Val-Glu-Tyr-Pro-Cys-Gly-Lys-Ile-Pro-Ile-Leu-Glu-Lys-Arg-  
                   130                  135                140  
  
 Asn-Ala-Ser-Lys-Pro-Gln-Gly-Arg-Ile-Val-Gly-Gly-Lys-Val-Cys-Pro-Lys-Gly-  
                   145                  150                155                    160  
  
 Glu-Cys-Pro-Trp-Gln-Val-Leu-Leu-Leu-Val-Asn-Gly-Ala-Gln-Leu-Cys-Gly-Gly-  
                   165                  170                175                    180  
  
 Thr-Leu-Ile-Asn-Thr-Ile-Trp-Val-Val-Ser-Ala-Ala-His-Cys-Phe-Asp-Lys-Ile-  
                   185                  190                195

Fig. 1

2/3

Lys-Asn-Trp-Arg-Asn-Leu-Ile-Ala-Val-Leu-Gly-Glu-His-Asp-Leu-Ser-Glu-His-  
200 205 210 215  
Asp-Gly-Asp-Glu-Gln-Ser-Arg-Arg-Val-Ala-Gln-Val-Ile-Ile-Pro-Ser-Thr-Tyr-  
220 225 230  
Val-Pro-Gly-Thr-Thr-Asn-His-Asp-Ile-Ala-Leu-Leu-Arg-Leu-His-Gln-Pro-Val-  
235 240 245 250  
Val-Leu-Thr-Asp-His-Val-Val-Pro-Leu-Cys-Leu-Pro-Glu-Arg-Thr-Phe-Ser-Glu-  
255 260 265 270  
Arg-Thr-Leu-Ala-Phe-Val-Arg-Phe-Ser-Leu-Val-Ser-Gly-Trp-Gly-Gln-Leu-Leu-  
275 280 285  
Asp-Arg-Gly-Ala-Thr-Ala-Leu-Glu-Leu-Met-Val-Leu-Asn-Val-Pro-Arg-Leu-Met-  
290 295 300 305 306  
Thr-Gln-Asp-Cys-Leu-Gln-Gln-Ser-Arg-Lys-Val-Gly-Asp-Ser-Pro-Asn-Ile-Thr-  
310 315 320  
Glu-Tyr-Met-Phe-Cys-Ala-Gly-Tyr-Ser-Asp-Gly-Ser-Lys-Asp-Ser-Cys-Lys-Gly-  
325 330 335 340  
Asp-Ser-Gly-Gly-Pro-His-Ala-Thr-His-Tyr-Arg-Gly-Thr-Trp-Tyr-Leu-Thr-Gly-  
345 350 355 360  
Ile-Val-Ser-Trp-Gly-Gln-Gly-Cys-Ala-Thr-Val-Gly-His-Phe-Gly-Val-Tyr-Thr-  
365 370 375  
Arg-Val-Ser-Gln-Tyr-Ile-Glu-Trp-Leu-Gln-Lys-Leu-Met-Arg-Ser-Glu-Pro-Arg-  
380 385 390 395  
Pro-Gly-Val-Leu-Leu-Arg-Ala-Pro-Phe-Pro  
400 405 406

Fig. 1 (continued)

FIGURE 2 - the amino acid sequence of residues 300-322 in human coagulation factor VII and the corresponding regions of trypsin, thrombin and factor Xa.

	300	305	310
Factor VII	Leu-Asn-Val-Pro-Arg-Leu-Met-Thr-Gln-Asp-Cys-Leu-Gln-Gln-Ser		
Trypsin	Leu-Lys-Ala-Pro-Ile-Leu-Asp-Asn-Ser-Ser-Cys-Lys-Ser-----		
Thrombin	Val-Asn-Leu-Pro-Ile-Val-Glu-Arg-Pro-Val-Cys-Lys-Asp-----		
Factor Xa	Leu-Glu-Val-Pro-Tyr-Val-Asp-Arg-Asn-Ser-Cys-Lys-Leu-----		

  

	315	320
Factor VII	Arg-Lys-Val-Gly-Asp-Ser-Pro-Asn	
Trypsin	-----Ala-Tyr-Pro-Gly-Gln	
Thrombin	-----Ser-Thr-Arg-Ile-Arg	
Factor Xa	-----Ser-Ser-Ser-Phe-Ile	

Fig. 2